

Abstract of the Disclosure:

A DC voltage chopper contains a power switch device with a drive circuit, an LC filter circuit connected in a main circuit of the power switch device, a commutating circuit 5 connected in parallel to the LC filter circuit, and a comparison circuit with a hysteretic function and has an output connected to the drive circuit. A first input terminal of the comparison circuit is connected to an output terminal of the DC voltage chopper, and a second input terminal of the 10 comparison circuit is connected to a reference voltage generator that generates a reference voltage. The drive circuit has a logic circuit with a first input receiving the output signal of the comparison signal of the comparison circuit, and a second input receiving a trigger clock signal 15 with a fixed frequency. The DC voltage chopper combines the good attributes of hysteresis control with a fixed switching frequency.

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